



Excel

# Excel Formulas Face-Off:

VLOOKUP

XLOOKUP

HLOOKUP and

INDEX-MATCH

# 1 VLOOKUP

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A classic formula that searches for a specific value in the first column of a range and returns a corresponding value from another column.

**Example:** Looking up an employee's salary based on their employee ID.

```
=VLOOKUP(employee_id, employee_data, salary_column, FALSE)
```

## **2 XLOOKUP (Excel 365 & Excel 2019)**

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A versatile and user-friendly function that simplifies the lookup process, addressing VLOOKUP and HLOOKUP limitations.

**Example:** Finding the product price based on its name.

```
=XLOOKUP(product_name, product_names_range, product_prices_range)
```

## **3** HLOOKUP

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Like VLOOKUP, it searches for a value in the first row of a table and returns a value from the same column in another row.

**Example:** Retrieving a monthly sales target from a table with months in the top row.

```
=HLOOKUP(month, sales_data, target_row, FALSE)
```



## INDEX-MATCH

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A powerful combination of two Excel functions, INDEX and MATCH, which provides flexibility and enhanced performance.

**Example:** Determining a customer's region based on their customer number.

```
=INDEX(regions_range, MATCH(customer_number, customer_numbers_range, 0))
```